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## INDEX TO AMERICAN BOTANICAL LITERATURE

(1904)

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in its broadest sense.

Reviews, and papers which relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omission their kindness will be appreciated.

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**Barnhart, J. H.** The date of Pursh's Flora. *Torrey*, 4: 132-136.  
30 S 1904.

**Berger, A.** *Opuntia rutila* Nutt. *Monats. Kakteenk.* 14: 109, 110.  
10 J1 1904. [Illust.]

**Berry, E. W.** Rings in bark formed by branches. *Torrey*, 4:  
142, 143. 30 S 1904.

**Bicknell, E. P.** Three new violets from Long Island. *Torrey*, 4:  
129-132. 30 S 1904.

Descriptions of three new species.

**Britton, N. L.** Explorations in Florida and the Bahamas. *Jour. N. Y. Bot. Gard.* 5: 129-136. *f.* 18-23. J1 1904.

**Britton, N. L.** A new species of *Bradburya*. *Torrey*, 4: 142. 30  
S 1904.

*B. floridana*.

**Britton, N. L. & Rose, J. N.** *Lenophyllum*, a new genus of *Crassulaceae*. *Smiths. Misc. Coll.* 47: 159-162. *pl.* 20 + *f.* 18, 19. 10  
O 1904.

The type is *Sedum guttatum* Rose, and two new species are described.

**Buchanan, R. E.** A contribution to our knowledge of the development of *Prunus americana*. *Proc. Iowa Acad. Sci.* 11: 77-93.  
*pl.* 6-8. 1904.

- Chodat, R.** *Polygalaceae* Schwackianae sive enumeratio *Polygalacearum* a cl. Schwacke in Brasilia lectarum. Bull. Herb. Boissier, II. 4: 910-913. 31 Au 1904.
- Chodat, R. & Hassler, E.** Plantae Hasslerianae soit énumération des plantes récoltées au Paraguay. Bull. Herb. Boissier, II. 4: 548-563. 31 My 1904; 688-693. 30 Je 1904; 824-839. 30 Jl 1904; 879-909. 31 Au 1904.
- Includes new species in *Mimosa* (9), *Piptadenia*, *Bauhinia*, *Cassia* (3), *Caesalpinia*, *Sweetiopsis* gen. nov., *Lupinus*, *Tephrosia* (3), *Coursetia* (2), *Arachis* (2), *Desmodium*, *Galactia* (2), *Rynchosia* and *Eriosema* (2).
- Chrysler, M. A.** The development of the central cylinder of *Araceae* and *Liliaceae*. Bot. Gaz. 38: 161-184. pl. 12-15. 23 S 1904.
- Clearman, H. M.** A geological situation in the lava flow, with reference to the vegetation. Proc. Iowa Acad. Sci. 11: 65-68. 1904.
- Cockerell, T. D. A.** The North American species of *Hymenoxys*. Bull. Torrey Club, 31: 461-509. pl. 20-23. 4 O 1904.
- Includes 4 new species, and many new subspecies and new names.
- Coker, W. C.** On the spores of certain *Coniferae*. Bot. Gaz. 38: 206-213. f. 1-24. 23 S 1904.
- Coulter, S. & Dornier, H. B.** A key to the genera of the forest trees of Indiana, based chiefly upon leaf characters. 1-11. Lafayette, Ind. 1904.
- Cratty, R. I.** Flora of Emmet County, Iowa. Proc. Iowa Acad. Sci. 11: 201-251. 1904.
- Dams, E.** *Echinocactus denudatus* Lk. et Otto. Monats. Kakteenk. 14: 44, 45. 15 Mr 1904. [Illust.]
- Dams, E.** *Mamillaria trichacantha* K. Sch. Monats. Kakteenk. 14: 45. 15 Mr 1904. [Illust.]
- Dams, E.** *Mamillaria Wrightii* Eng. Monats. Kakteenk. 14: 6-10. 15 Ja 1904. [Illust.]
- Davis, B. M.** Studies on the plant cell. — I. Am. Nat. 38: 367-395. f. 1-3. 1 Au 1904; — II. Am. Nat. 38: 421-469. f. 4-8. 24 Au 1904.
- Dennert, E.** At the deathbed of Darwinism. 1-146. Burlington, Iowa. 1904.
- Earle, F. S.** Botany at the Cuban experiment station. Science, II. 20: 444, 445. 30 S 1904.
- Fink, B.** Two centuries of North American lichenology. Proc. Iowa Acad. Sci. 11: 11-38. 1904.
- With a portrait of Edward Tuckerman.

- Hackel, E.** Zwei neue Gräser aus Chile. Oesterr. Bot. Zeits. **54**: 289-291. Au 1904.  
*Stipa usspallatensis* sp. nov. and *Trisetum Buchtienii* sp. nov.
- Harper, R. M.** The type-locality of *Arenaria brevifolia*. Torrey, **4**: 138-141. 30 S 1904. [Illust.]
- Herre, A. C.** The growth of *Ramalina reticulata*. Bot. Gaz. **38**: 218, 219. f. 1. 23 S 1904.
- Howe, M. A.** Collections of marine algae from Florida and the Bahamas. Jour. N. Y. Bot. Gard. **5**: 164-166. Au 1904.
- Johnson, D. S.** The development and relationship of *Monoclea*. Bot. Gaz. **38**: 185-205. pl. 16, 17. 23 S 1904.
- Knowlton, F. H.** Fossil plants from Kukak Bay. Harriman Alaska Expedition, **4**: 149-162. pl. 22-33. 1904.  
With descriptions of 9 new species in 7 genera.
- Lehman, E. A.** North Carolina fungi. The Academy (Winston-Salem, N. C.) **27**: 4031-4037. f. 1-4. S 1904.
- Lloyd, F. E.** A visit to the Desert Botanical Laboratory. Jour. N. Y. Bot. Gard. **5**: 172-177. f. 27, 28. S 1904.
- Lloyd, F. E. & Bigelow, M. A.** The teaching of biology in the secondary school. i-viii. 1-491. New York. 1904.
- Lucas, F. A.** Variation in the ray flowers of the common cone-flower (*Rudbeckia hirta*). Am. Nat. **38**: 427-429. f. 1-4. 24 Au 1904.
- Miller, K. A.** The lichens of "The Ledges," Boone County, Iowa. Proc. Iowa Acad. Sci. **11**: 139-146. 1904.
- Millspaugh, C. F.** Plantae Yucatanæ. Fascicle II. Field Columb. Mus. Publ. 92. (Bot. Ser. **3**: 85-151.) 26 Ap 1904. [Illust.]  
This fascicle comprises the *Compositæ*; every species is illustrated; new species are described in *Parthenium*, *Salmea*, *Encelia* and *Plagiolophus*.
- Mottier, D. M.** Fecundation in plants. i-viii. 1-187. f. 1-75. Washington, 1904.  
Carnegie Inst. Publ. No. 15.
- Mueller, H. A.** A preliminary list of the flowering plants of Madison County [Iowa]. Proc. Iowa Acad. Sci. **11**: 261-279. 1904.
- Murr, J.** Chenopodien-Studien. Bull. Herb. Boissier, II. **4**: 989-994. pl. 5, 6. 30 S 1904.  
Includes descriptions of several new American subspecies and varieties.
- Murrill, W. A.** A new polyporoid genus from South America. Torrey, **4**: 141, 142. 30 S 1904.  
*Phylloporia*; the type, *P. parasitica* sp. nov., native of Columbia.

- Nash, G. V.** An agave in flower. Jour. N. Y. Bot. Gard. **5**: 178-181. *f.* 29, 30. S 1904.
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- Robinson, C. B.** The ferns of northern Cape Breton. Torrey, **4**: 136-138. 30 S 1904.
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- Schumann, K.** Lebensbeschreibung berühmter Kakteenkenner. Charles Plumier. Monats. Kakteenk. **14**: 77-79. 15 My 1904; 94-96. 10 Je 1904.
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With descriptions of two new species.
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- Shimek, B.** Ferdinand Reppert. Proc. Iowa Acad. Sci. **11**: xi. 1904.
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